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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/721,833	11/25/2003	Lennart Pitzele	1465.2001-010	4759
21005	7590 07/13/2004		EXAMINER	
HAMILTON, BROOK, SMITH & REYNOLDS, P.C.			PATEL, RAJNIKANT B	
530 VIRGINIA ROAD			ART UNIT	PAPER NUMBER
	P.O. BOX 9133 CONCORD, MA 01742-9133			THE BRITONIBER
			2838 DATE MAILED: 07/13/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Andrew Courses	10/721,833	PITZELE, LENNART				
Office Action Summary	Examiner	Art Unit				
	Rajnikant B Patel	2838				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a rep. If NO period for reply is specified above, the maximum statutory period.  - Failure to reply within the set or extended period for reply will, by statul Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>25 November 2003</u> .						
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ Thi	☐ This action is <b>FINAL</b> . 2b) ☑ This action is non-final.					
•	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1-16 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-16 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/	awn from consideration.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
• • • • • • • • • • • • • • • • • • • •	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the corre						
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)	_					
1) Notice of References Cited (PTO-892)	4) Interview Summary Paper No(s)/Mail Da					
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 11/25/03.</li> </ul>	. 🗂	eatent Application (PTO-152)				

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) The invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1,4,8 and 12 rejected under 35 U.S.C. 102(b) as being anticipated by Downes et al. (U.S. patent # 5,589,669).

Downes et al. disclose the claimed invention a terminal pin (figure 5 and 8), an elongated pin or rigid terminal pin (figure 8, item 54), a flange (figure 8, item 58), a shoulder (figure 8, item 64), a circuit substrate, a printed circuit board (figure 8, item 62), and a chamfered (figure 8, item 66).

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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4. Claims 2-3,5-7,9-11 and 13-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Downes et al. (U.S. patent # 5,589,669) in combination with Roberts et al. (U.S. Patent # 6,335,548 B1).

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Downes et al. disclose the claimed invention as explained in the claims 1,4,8 and 12, above, except the utilization of the technique for terminal pin with two opposed chamfered, wave soldering, reflow soldering. Roberts et al. teaches the utilization of similar technique for terminal pin with two opposed chamfered, wave soldering, reflow soldering (column 12, line 25-45, column 9, line 60-65, column 2, line 45-68). It would have been obvious one having an ordinary skill in the art at the time invention was made to modify Downes et al.'s terminal pin by utilizing the technique taught by Roberts et al. for the purpose providing fast manufacturing process for printed circuit board.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rajnikant B Patel whose telephone number is 571-272-2082. The examiner can normally be reached on 6.30-5.00; m-f.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Sherry can be reached on 571-272-2084. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Rajnikant B Patel Primary Examiner Art Unit 2838

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